

CORRES CONTROL
OUTGOING LTR NO

DOE ORDER
94 RF 00313

EG&G ROCKY FLATS

000022940

EG&G ROCKY FLATS INC
ROCKY FLATS PLANT P O BOX 464 GOLDEN COLORADO 80402-0464 (303) 966 7000

January 7 1994

94 RF 00313

DIST	TR	ENC
AMARAL ME		
BENEDETTI R L		
BENJAMIN A		
BERMAN H S		
BRANCH D B		
CARNIVAL G J		
COPP R D		
DAVIS J G		
FERRERA D W		
HANNI B J		
HARMAN L K		
HEALY T J		
HEDAH L T		
HILBIG J G		
HUTCHINS N M	X	X
KIRBY W A		
KUESTER A W		
MAHAFFEY J W		
MANN H P		
MARX G E		
MCDONALD M M		
McKENNA F G		
MONTROSE J K		
MORGAN R V		
POTTER G L		
PIZZUTO V M		
RISING T L		
SANDLIN N B		
SETLOCK G H		
STEWART D L		
SULLIVAN M T		
SWANSON E R		
WILKINSON R B		
WILLIAMS S (ORC)		
WILSON J M		
WYANT R D		
Pontius, D W	X	X
St Ger, S G	X	X
CORRES CONTROL	X	X
ADMIN RECORD 080		
PATS T130G		
TRAFFIC		

CLASSIFICATION

UCNI	
UNCLASSIFIED	
CONFIDENTIAL	
SECRET	

AUTHORIZED CLASSIFIER
DOCUMENT CLASSIFICATION
REVIEW WAIVER PER
CLASSIFICATION OFFICE
DATE

IN REPLY TO RFP CC NO

ACTION ITEM STATUS
PARTIAL/OPEN

CLOSED
TR APPROVALS

MA
ORIG & TYPIST INITIALS
DWP/cet

Richard J Schassburger
Acting Director
Environmental Restoration Division
DOE RFO

Attn Scott R Grace

OPERABLE UNIT NO 1 SOIL VAPOR SURVEY FOR INDIVIDUAL HAZARDOUS SUBSTANCE SITE
(IHSS) NO 119 1 IN SUPPORT OF SITE SELECTION FOR SIX PHASE HEATING NMH-003 94

Attached are the preliminary results of the Soil Vapor Survey (SVS) at IHSS119 1 located in Operable Unit 1 (See Attachment A) This work was performed by EG&G's subcontractor Metcalf & Eddy Inc (M&E) during the plant shutdown from December 24 1993 to January 3 1994 Thirty points within and around IHSS 119 1 were sampled and analyzed for 1 1 dichloroethane 1 1-dichloroethene carbon tetrachloride trichloroethene tetrachloroethene and toluene These volatile organic compounds were selected based on detection during the Remedial Investigation (RI) phase of the OU 1 site restoration The work was completed on January 4 1994 and the survey area was expanded to include the sample points south of the original area as requested by DOE/RFO on December 22 1993 Attachment B the draft OU 1 IHSS 119 1 SVS Sample Locations diagram shows the approximate location of the sample points This data was generated to determine the potential of IHSS 119 1 as an appropriate site for demonstrating the Six Phase Subsurface Heating Technology an enhancement to Soil Vapor Extraction

A field report which includes the quality controlled data will be prepared and submitted to EG&G by M&E on or about January 7 1994 The OU1 soil gas survey data from IHSS 119 1 will be included in the OU 2 Subsurface IM/IRA SVS Final Report as a separate chapter it is scheduled for completion by February 14 1994

If you have questions or require further information please contact D W Pontius of Environmental Engineering & Technology at X8616 or R Z Houk of Remediation Project Management at X8714

N M Hutchins
Director
Environmental Science & Engineering

DWP cet

Orig and 1 cc R J Schassburger

Attachments
As Stated (2)

cc
T Reeves DOE/RFO

ADMIN RECORD

OU 1 SOIL VAPOR SURVEY

IHSS 119 1 SAMPLE ANALYSIS RESULTS

DATA SUMMARY

<u>Sample Point No.</u>	<u>1,1 DCA</u>	<u>1,1 DCE</u>	<u>CCl₄</u>	<u>TCE</u>	<u>PCE</u>	<u>Toluene</u>	<u>Tot VOC</u>
1	10	<1 0	<0 2	0 6	1 6	<1 0	13
3	<0 5	<1 0	<0 2	<0 5	<0 2	<1 0	<3 4
4	<0 5	<1 0	<0 2	2 0	<0 2	<1 0	<3 4
5	59	<1 0	<0 2	56	19	<1 0	135
6	5 8	<1 0	<0 2	1 5	<0 2	<1 0	8
7	<0 5	<1 0	16 7	17 5	0 2	<1 0	35
8	<0 5	<1 0	<0 2	6 7	1 14	<1 0	8
9	<0 5	<1 0	<0 2	3 2	0 9	<1 0	5
10	0 9	<1 0	<0 2	3 9	28	<1 0	34
11	1 6	<1 0	0 2	0 7	8 1	<1 0	11
13	<0 5	<1 0	<0 2	<0 5	0 2	<1 0	<3 4
14	1 13	<1 0	2 23	9 01	38	<1 0	12
15	<0 5	<1 0	<0 2	1 04	0 27	<1 0	<3 4
16	<0 5	<1 0	<0 2	1 8	0 5	<1 0	<3 4
17	<0 5	<1 0	<0 2	0 6	4 0	<1 0	5
19	<0 5	<1 0	<0 2	<0 5	<0 2	<1 0	<3 4
20	66	<1 0	<0 2	132	<0 2	<1 0	200
21	<0 5	<1 0	<0 2	<0 5	<0 2	<1 0	<3 4
22	22	<1 0	<0 2	0 6	1 6	<1 0	25
23	<0 5	<1 0	29	10	0 2	<1 0	40
50	<0 5	<1 0	<0 2	<0 5	<0 2	<1 0	<3 4
51	<0 5	<1 0	<0 2	3 2	1 4	<1 0	5
52	<0 5	<1 0	<0 2	<0 5	<0 2	<1 0	<3 4
53	<0 5	<1 0	<0 2	<0 5	<0 2	<1 0	<3 4
61	<0 5	<1 0	<0 2	<0 5	<0 2	<1 0	<3 4
62	30	<1 0	<0 2	0 6	<0 2	<1 0	4
63	<0 5	<1 0	<0 2	<0 5	<0 2	<1 0	<3 4
64	<0 5	<1 0	<0 2	2 8	<0 2	<1 0	4
65	<0 5	<1 0	<0 2	16	<0 2	<1 0	17
66	58	<1 0	<0 2	64	20	17	160

Notes

All data results are unvalidated Quality assurance of the data is currently ongoing

All units are expressed as ug/l

*Less than values are detection limits and total VOC values are approximate

Sample point locations are shown on the OU 1 IHSS 119 1 Sample Locations diagram

